UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/560,090	12/09/2005	Hiroshi Shinmen	126256	9479
25944 OLIFF & BERI	7590 08/06/200 RIDGE, PLC	EXAMINER		
P.O. BOX 3208	350	NGUYEN, TUYEN T		
ALEXANDRIA, VA 22320-4850			ART UNIT	PAPER NUMBER
			2832	
			MAIL DATE	DELIVERY MODE
			08/06/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)		
	10/560,090	SHINMEN ET AL.		
Office Action Summary	Examiner	Art Unit		
	TUYEN T. NGUYEN	2832		
The MAILING DATE of this communication appeariod for Reply	ppears on the cover sheet with th	e correspondence address		
A SHORTENED STATUTORY PERIOD FOR REP WHICHEVER IS LONGER, FROM THE MAILING - Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory perio - Failure to reply within the set or extended period for reply will, by statu. Any reply received by the Office later than three months after the mail earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATI 1.136(a). In no event, however, may a reply be d will apply and will expire SIX (6) MONTHS for the, cause the application to become ABANDO	ON. The timely filed The timely filed The mailing date of this communication. The mailing date of this communication.		
Status				
1) Responsive to communication(s) filed on 16 2a) This action is FINAL . 2b) Th 3) Since this application is in condition for allow closed in accordance with the practice under	is action is non-final. ance except for formal matters,			
Disposition of Claims				
4) ☐ Claim(s) 1-10 is/are pending in the application 4a) Of the above claim(s) is/are withdr 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-10 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and application Papers	rawn from consideration.			
9)☐ The specification is objected to by the Examir	oor			
10) The drawing(s) filed on is/are: a) according a deplicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Examination is objected to be added	ccepted or b) objected to by the drawing(s) be held in abeyance. Section is required if the drawing(s) is	See 37 CFR 1.85(a). objected to. See 37 CFR 1.121(d).		
Priority under 35 U.S.C. § 119				
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 				
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summ Paper No(s)/Mai 5) Notice of Informa 6) Other:			

Application/Control Number: 10/560,090 Page 2

Art Unit: 2832

DETAILED ACTION

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the

subject matter which the applicant regards as his invention.

Claims 1-10 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for

failing to particularly point out and distinctly claim the subject matter which applicant regards as

the invention.

Regarding claim 1, applicant should clarify the "predetermined amount" of magnetic

substance in the magnetic resin in order to obtain "predetermined magnetic characteristics."

Applicant should also clarify the "predetermined thickness" of the magnetic resin and

"predetermined" area of the core being cover by the magnetic resin. It has been held that the

functional "whereby" statement does not define any structure and accordingly can not serve to

distinguish. In re Mason, 114 USPQ 127, 44 CCPA 937 (1957). Applicant should clarify such

"adjustment" in order to have "predetermined leakage inductances."

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all

obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the

manner in which the invention was made.

Claims 1-10, as best understood in view of the rejection under 35 USC 112 second paragraph, are rejected under 35 U.S.C. 103(a) as being unpatentable over Suzuki [US 6,714,111 B2] in view of Saito et al. [JP 2002-141227].

Suzuki discloses an inverter transformer comprising:

- at least one winding unit comprising a bar-shaped magnetic core [23a, 23b], a primary

winding [24] and a secondary winding [25a, 25b] wound around the bar-shaped magnetic core;

- an external unit [21] surrounding a transformer body.

Suzuki discloses the instant claimed invention except for a magnetic resin.

Saito et al. discloses a magnetic inductor device comprising:

- a bar-shaped core [11];

- a coil [12] wound about the bar-shaped core;

- a magnetic ferrite resin [13b] formed of resin containing a predetermined amount of a

magnetic substance to thereby obtain predetermined magnetic characteristics disposed around

the coil and the bar-shaped core, wherein the magnetic resin having a predetermined thickness;

and

- an external unit [13a] surrounding the magnetic resin/the coil and the bar-shaped core,

wherein the magnetic resin covering at least one predetermined portion of the coil.

It would have been obvious to one having ordinary skilled in the art at the time the

invention was made to include magnetic resin about the winding unit of Suzuki, as suggested by

Saito et al., for the purpose of providing magnetic shielding.

The structure of Suzuki in view of Saito et al., when adjusted, would have predetermined

leakage inductances and influence caused by leakage flux and imposed on components and wires

arranged around the inverter transformer is reduced while influence coming from outside and

Page 4

given to magnetic characteristics of the inverter transformer is reduced. [note, these features are

functional language.]

Regarding claims 2-3 and 9, the specific arrangement of magnetic resin and the specific

magnetic relative permeability would have been an obvious design consideration for the purpose

of improving magnetic shielding.

Regarding claims 4-5 and 8, the specific flux density of the external unit, the specific

magnetic resistance, the specific material of the external unit would have been an obvious design

consideration for the purpose of enhancing magnetic properties.

Regarding claims 6-7, the specific configuration of the external unit would have been an

obvious design consideration based on the intended applications/environments use.

Regarding claim 10, iron power is a known material for use in magnetic device.

Response to Arguments

Applicant's arguments filed 7/16/2008 have been fully considered but they are not

persuasive.

Applicant argues that:

Suzuki in view of Saito fail to disclose the magnetic resin having a predetermined

amount of magnetic substance, a predetermined thickness and covering a predetermined

area/portion of the coil.

The examiner disagrees.

Saito discloses disclose the magnetic resin having a predetermined amount of magnetic

substance, a predetermined thickness and covering a predetermined area/portion of the coil.

The terminology "predetermined" does not positively recite any structure.

Conclusion

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to TUYEN T. NGUYEN whose telephone number is (571)272-

1996. The examiner can normally be reached on M-F 8:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, ELVIN ENAD can be reached on 571-272-1990. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would

like assistance from a USPTO Customer Service Representative or access to the automated

information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/TUYEN T NGUYEN/

Primary Examiner, Art Unit 2832

Application/Control Number: 10/560,090

Page 6

Art Unit: 2832